

**North Central Research Extension Center—Minot
2010 HRSW Fungicide X Variety Trial**

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Trial information

- Design: RCB with split-plot arrangement and four replicates
- Plot size: 5' x 18'
- Planting Date/Rate: April 23rd, 1.4 M PLS per acre
- Previous Crop/Tillage: Wheat/Fall tilled with chisel plow spikes
- Seeding System: Plot planter with off set double disc openers on 6 inch spacing
- Fertility: 217 lb/acre fall-spread urea
- Fungicide Treatments: 2 oz/acre Tilt applied with herbicide to 4-5 leaf wheat on June 7
6.5 oz/acre Prosaro + .25% v/v. NIS applied on July 2 when wheat was in early flower
- Application Equipment: CO₂ pressurized hand boom with 8001 flat fans @ 40 psi and 10 GPA for 4-5 leaf
CO₂ pressurized hand boom with 8002 twin jets @ 40 psi and 20 GPA for early flower
- Weed Control: 1.7 pt/acre Wolverine applied June 7
- Harvest Date: August 24

Variety	Flag Leaf Disease ¹		FHB Incidence ²		FHB Head Severity ²		FHB Field Severity ²		Test Weight		Protein		Yield	
	----%----		----%----		----%----		----%----		----lb/bu----		----%----		bu/A	
	28-Jul		3-Aug		3-Aug		3-Aug							
	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.
Alsen	20.0	61.3	14.5	13.0	13.5	13.2	2.1	1.8	61.8	61.1	14.6	14.0	77.8	67.4
Barlow	20.0	52.5	11.3	20.5	17.4	20.1	1.9	4.3	62.3	61.1	14.1	13.6	87.4	71.4
Brennan	18.8	52.5	15.5	22.0	12.5	21.6	1.9	4.8	60.8	59.8	13.8	13.2	83.7	71.2
Brick	25.0	58.8	10.5	13.0	15.5	12.6	1.5	1.8	62.1	61.4	12.8	13.3	81.8	73.3
Faller	22.5	56.3	9.5	13.8	12.2	19.6	1.2	2.9	61.1	59.4	13.5	12.7	93.3	80.0
Freyr	25.0	52.5	12.5	15.3	17.9	14.5	2.0	2.3	60.9	59.9	12.9	12.9	72.9	74.6
Glenn	21.3	52.5	9.0	15.5	13.5	16.3	1.4	2.8	63.7	62.8	13.9	13.2	72.0	61.5
Granite	20.0	63.8	8.5	9.0	16.8	12.9	1.7	1.5	63.0	62.0	14.6	14.6	78.0	67.9
Howard	23.8	65.0	14.5	16.5	17.5	19.7	2.8	3.8	61.6	59.7	13.1	13.0	76.1	65.7
Jenna	17.5	55.0	14.8	19.8	17.9	29.7	3.1	7.0	60.4	59.4	13.8	12.9	85.1	76.5
Kelby	20.0	56.3	18.0	24.0	14.8	29.2	2.8	7.3	60.8	59.9	14.1	13.4	74.0	69.6
Mott	18.8	73.8	4.8	4.8	20.6	19.0	0.7	1.0	61.5	60.1	13.5	12.6	80.2	62.0
RB07	25.0	62.5	14.8	16.0	12.1	18.0	1.9	3.0	60.8	59.2	12.8	13.4	73.7	64.9
Steele-ND	23.8	63.8	10.8	18.5	15.2	21.5	1.6	4.0	61.9	59.9	14.5	13.2	79.6	67.1
LSD 5%	4.4		6.3		10.8		2.2		0.5		1.3		9.5	
C.V.%	7.7		31.5		43.6		58.4		0.6		6.9		9.0	
Mean	40.2		14.2		17.4		2.7		61.0		13.5		74.3	

Spring soil test results (4/26/2010 sampling date): N= 143 lb/a (0-24"), P = 23ppm (0-6"), K = 440 ppm (0-6"), S = 46 lb/a (0-24"), OM = 5.6%

¹ Leaf disease rating based on visual evaluation of disease severity in the plot

² Fusarium head blight (FHB) ratings based on 40 heads sampled per plot. Incidence = percent exhibiting symptoms, Head severity = average percent affected in symptomatic heads, Field severity = percent incidence x percent head severity